In the United States Patent and Trademark Office

Application No.: Not yet assigned	)	Filing Date: June 24, 2003
	)	
Title: CONTROL SYSTEM FOR IMPROVED TRANSIENT RESPONSE IN A VARIABLE-GEOMETRY TURBOCHARGER	)	
	)	
Applicant: Samir Ahmad	)	Attorney Docket No.: H0004229
	)	
Examiner: Not yet assigned	)	Art Unit: Not yet assigned

Petition to Make Special Under 37 C.F.R. 1.102(c)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Hon. Commissioner,

This petition is filed pursuant to 37 C.F.R. 1.102(c) concurrently with the above referenced patent application as an invention that will materially enhance the quality of the environment and materially contribute to the conservation of energy resources.

The present invention is directed to use in turbochargers. For diesel engines, turbochargers are essential for fuel economy and low emissions. Turbocharged diesel engines are about 20-30% better in fuel economy and 50-80% cleaner in particulate emissions than non-turbocharger diesel engines. NOx emissions in turbocharged engines are reduced 50-80% through the use of charge air cooling and exhaust gas recirculation systems.

Certification under 37 C.F.R. §1.10
This correspondence is being filed by Express mail addressed to Commissioner for Patents, Washington, D.C. 20231
on Date: June 24, 2003
Express Mail No.: EU832023415US
By: _____

Similarly for gasoline engines, turbochargers enable engine downsizing and improve fuel economy by 10%. Turbochargers supply more air and better control that air supply than non-turbocharged engines. A controlled supply of air enables the shaping of the torque curve and makes the engine supply the torque of a large engine with the fuel economy of a small engine.

Design improvements in turbochargers, such as a system and method for improving transient response times of a variable-geometry turbocharger, contribute further to reducing emissions and improving fuel economy by enhancing the performance of engines where these improved turbocharger systems are employed.

For these reasons, applicant respectfully petitions that this application be made special for advancement of examination.

Respectfully submitted,

Date: June 24, 2003

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